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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,913	06/27/2003	Axo Chi	104900	8159
27717 7	7590 09/21/2005		EXAM	INER
SEYFARTH SHAW LLP			SHAPIRO, LEONID	
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SUITE 4200			ART UNIT	PAPER NUMBER
CHICAGO, IL 60603-5803			2677	
		DATE MAILED: 09/21/2003	DATE MAILED: 09/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/607,913	CHI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Leonid Shapiro	2673			
Period f	The MAILING DATE of this communication or Reply	appears on the cover sheet wi	th the correspondence address			
THE - External control	MORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO ensions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication e period for reply specified above is less than thirty (30) days, a D period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the month adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirt- riod will apply and will expire SIX (6) MON atute, cause the application to become AB	eply be timely filed  ( (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 2	7 June 2003.				
	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)[	·—					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
5)□ 6)⊠ 7)□	<ul> <li>✓ Claim(s) 1-20 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>☐ Claim(s) is/are allowed.</li> <li>✓ Claim(s) 1-20 is/are rejected.</li> <li>☐ Claim(s) is/are objected to.</li> <li>☐ Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Applicat	tion Papers					
10)⊠	The specification is objected to by the Exame The drawing(s) filed on <u>27 June 2003</u> is/are Applicant may not request that any objection to Replacement drawing sheet(s) including the core The oath or declaration is objected to by the	: a)⊠ accepted or b)⊡ object the drawing(s) be held in abeyan rection is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority	under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for fore S All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachmer						
2)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB er No(s)/Mail Date	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application (PTO-152) 			

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-2, 4-11,13-17, 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Ronzani et al. (US Patent No. 6,683,584 B2).

As to claim 1, Ronzani et al. teaches a head-mounted display (See from Col. 2, Line 66 to Col. 3, Line 9), comprising:

a main wearing frame for placing on a wearer's head (See Fig. 55, item 1925, Col. 24, Lines 29-30);

a support frame connected to the main wearing frame (See Fig. 55, items 1921a, 1921b, Col. 24, Lines 29-32);

a video output terminal module fixed on the support frame support (See Fig. 55, items 1921a, 1921b, 1923a, 1923b, Col. 24, Lines 29-37), the video output terminal module including a right output socket (See Fig. 55, item 1923a) and a left output socket (See Fig. 55, item 1923b); and

at least one display unit connected to either the right output socket or the left output socket (See Fig. 55, items 1200, 1924, Col. 24, Lines 37-46).

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As to claims 2, 17, 19 Ronzani et al. teaches the video output terminal module includes an output terminal base (See Fig. 55, items 1921a, 1921b, 1923a, 1923b, Col. 24, Lines 29-37) for fixing the right output socket (See Fig. 55, item 1923a) and the left output socket on the support frame (See Fig. 55, item 1923b).

As to claim 4, Ronzani et al. teaches the video output terminal module further includes at least one extension socket connected to either the right output socket or the left output socket (See Fig. 55, items 1200, 1924, Col. 24, Lines 37-46).

As to claims 5-7, 15-16 Ronzani et al. teaches the support frame joins the main wearing frame by a rotatable joint, includes at lease two links engaged by a rotatable joint, the support frame is made of a flexible and shapeable snake tub (See Fig. 55, items 1921a, 1921b, 1922a, 1922b, Col. 24, Lines 29-38).

As to claim 8, Ronzani et al. teaches display unit is suitable for both eyes of the wearer (See Fig. 55, items 1200, 1924, 1929, Col. 24, Lines 37-46).

As to claim 10, Ronzani et al. teaches a microphone extending from the main wearing frame and near the wearer's mouth (See Fig. 57D, item 1330, Col. 25, Lines 10-11).

As to claim 9, 11, 14 Ronzani et al. teaches a speaker provided on the main wearing frame and near ears of the wearer and two secondary wearing frames separately going forward both ears of the wearer (See Fig. 55, items 1921a, 1921b, 1925, Col. 24, Lines 29-32).

As to claim 13, Ronzani et al. teaches a head-mounted display (See from Col. 2, Line 66 to Col. 3, Line 9), comprising:

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a clamping mechanism (See Fig. 55, item 1925, Col. 24, Lines 29-30);

a support frame connected to the main wearing frame (See Fig. 55, items 1921a, 1921b, Col. 24, Lines 29-32);

a video output terminal module fixed on the support frame support (See Fig. 55, items 1921a, 1921b, 1923a, 1923b, Col. 24, Lines 29-37), the video output terminal module including a right output socket (See Fig. 55, item 1923a) and a left output socket (See Fig. 55, item 1923b); and

at least one display unit connected to either the right output socket or the left output socket (See Fig. 55, items 1200, 1924, Col. 24, Lines 37-46).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 3,18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ronzani et al. as applied to claims 1, 13 above, and further in view of Masashige (JP 08-251509).

Ronzani et al. does not disclose plurality of sliding mechanisms for the output terminal base and the right and left output sockets to have relative sliding movements.

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Masashige teaches sliding mechanisms for the output terminal base and the right and left output modules to have relative sliding movements (See Drawings 1-3, items 1-3, paragraph 0012-0013).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teaching of Masashige into Ronzani et al. system in order to provide a simple and compact head mounted display without the complicated adjustment function of an optical system (See Abstract in Masashige reference).

3. Claims 12, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ronzani et al. as applied to claims 1, 13 above, and further in view of Miller et al. (US Patent No. 6,729,726 B2).

Ronzani et al. does not disclose the main wearing frame includes a Bluetooth modular for receiving external video and audio signals.

Miller et al. teaches a Bluetooth modular for receiving external video and audio signals (See Figure 21, items 200, 2102, Col. 12, Lines 13-39).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teaching of Miller et al. into Ronzani et al. system in order to provide hand-free two-way communication (See Col. 1, Lines 16-19 in the Miller et al. reference).

## Telephone Inquire

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LS 08.30.05

> VIJAY SHANKAR PRIMARY EXAMINER